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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/622,955	07/18/2003	Justin K. Brask	ITL.1021US (P16708)	3990	
7590 10/18/2005			EXAM	EXAMINER	
Timothy N. Trop TROP, PRUNER & HU, P.C.			CRANE, SARA W		
STE 100			ART UNIT	PAPER NUMBER	
8554 KATY FWY HOUSTON, TX 77024-1841			2811		
			DATE MAILED: 10/18/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

 		Application No.	Applicant(s)		
Office Action Summary		10/622,955	BRASK ET AL.		
		Examiner	Art Unit		
		Sara W. Crane	2811		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHO WHIC - Exter after - If NO - Failur Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATES as ions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be time 17/11/11/11/11/11/11/11/11/11/11/11/11/1	I. nely filed the mailing date of this communication.		
Status					
 Responsive to communication(s) filed on <u>05 August 2005</u>. This action is FINAL. 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213. 					
Dispositi	on of Claims				
5)⊠ 6)□ 7)⊠	Claim(s) 1-11 and 17-27 is/are pending in the at 4a) Of the above claim(s) is/are withdraw Claim(s) 7-11 and 17-27 is/are allowed. Claim(s) is/are rejected. Claim(s) 6 is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.			
Applicati	on Papers				
10)	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correcti The oath or declaration is objected to by the Ex	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority u	nder 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
2) Notice Notice 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:			

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DETAILED ACTION

Page 4, line 13, of the specification refers to "silicide 16a." This should probably read --silicate 16a--, as in lines 5 and 6. (?) The claims seem to recite that it is the silicate that is selectively removed, rather than the silicide.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fatula, Jr. et al.

With respect to claim 1, figure 2 of the reference shows metal silicide layer 16 (column 3, line 16), which is converted to metal rich silicon oxide (column 3, line 28). Metal rich silicon oxide would be metal silicate, because it is a compound of silicon, oxide, and metal. Alternatively, it would have been obvious to form metal silicate by oxidation of metal silicide, because oxidation of metal silicide is what is taught at column 3, lines 20-32, of the reference. The reference then teaches to etch the metal rich silicon oxide with an etchant that is selective to metal rich silicon oxide (abstract, last line). With respect to claims 2-3, column 3, lines 33-34, teaches to etch with HF solution, where room temperature is understood, or, alternatively, obvious because of simplicity of the processing. With respect to claims 4-5, known oxidizing environments

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would have been obvious in view of the reference teaching of the need for such at column 3, lines 13 et seq.

Allowable Subject Matter

Claim 6 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 7-11 and 17-27 are allowed.

Conclusion

Applicant's remarks have been considered, but the Fatula references teaches an etchant which is selective to metal rich silicon oxide (which would be metal silicate) as compared to normal SiO₂, which would meet the claim language of "an etchant that is selective to metal silicate."

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

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shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to S. Crane, whose telephone number is (571) 272-1652.

The supervisor for Art Unit 2811, Eddie Lee can be reached on (571) 272-1732. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sara W. Crane Primary Examiner

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